

Hyperuniformity on flat tori

10.08**Tetiana Stepaniuk***(RICAM, Austrian Academy of Sciences, Linz, Austria)***Time:** Thursday 25.07., 17:00 - 17:30, Room HS 5

Abstract: In the talk we study hyperuniformity on flat tori. Hyperuniform point sets on the unit sphere have been studied by J. Brauchart, P. Grabner, W. Kusner and J. Zieve. It is shown that point sets which are hyperuniform for large balls, small balls or balls of threshold order on the flat tori are uniformly distributed. We also show that QMC-designs sequences for Sobolev classes and probabilistic point sets (with respect to jittered samplings) are hyperuniform.